Curriculum Vitae

Raúl Mújica García

- **Generals**
  - Date of Birth : 31 March 1967
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- **Scholarship**
  - Elementary School: Escuela Primaria "Fray Pedro de Gante"
    Puebla, Pue.
  - Junior High School: Escuela Secundaria Técnica No. 1
    Puebla, Pue.
  - High School: Escuela Preparatoria "Lic. Benito Juarez" U.A.P.
    Puebla, Pue.
  - University: Career in Physics
    Escuela de Ciencias Físico-Matemáticas U.A.P.
    Examination Date: 27 march 1990
  - M.Sc.
    INAOE (29 may 1992)
    Title: Estudio Espectroscópico de Estrellas subluminosas en NGC2264
  - Ph.D. (Astrophysics)
    INAOE (11 august 1997)
    Title: Search for BL Lacs in the ROSAT-LSW Sample

- **Professional Activities**
  - Researcher in Astronomy. Inv. Titular A, INAOE
    Since October 1999-
  - Researcher in Astronomy. Inv. Repatriado, INAOE
    October 1998-September 1999
  - Posdoctoral Position, Observatoire Astronomique de Strasbourg
    October 1997-September 1998
  - Associated Researcher. Inv. Asociado A., INAOE
    June 1990- 1993
  - Visiting Student, MPE-Garching
    August-October 1996
  - Visiting Student, LSW-Heidelberg
    July-August 1993
  - Visiting Student, LSW-Heidelberg
    June-August 1992
  - Visiting Student, LSW-Heidelberg
    May-July 1991

- **Distinctions**
  - Member of the Academia Mexicana de Ciencias
  - Investigador Nacional Nivel I (SNI)
  - Premio Nacional de Divulgación Científica 2012
  - Premio Estatal de Ciencia y Tecnología (Categoría: Divulgación Científica) 2012
  - P.I. of the FOMIX-Puebla project 170300 Rehabilitación del Planetario de Puebla, 2011-2012
  - P.I. of the FOMIX-Morelos project 148593 Trailer de la Ciencia, 2011-2012
  - P.I. of the FOMIX-Puebla project 77041 Trailer de la Ciencia, 2008-2009
  - P.I. of the CONACyT project SEP-2004-C01-45948 Propiedades Evolutivas de AGN, 2004- 2008
  - P.I. of the CONACyT project J32178-E for young researchers, 2000-2003
  - P.I. of the Mexico-France ECOS project M03-U02, 2003- 2008
  - SMF-President. División Regional Puebla 2008-2010
  - INAOE-Organizer IYA2009 Activities 2009

- **Scientific Works**

  Papers in Refereed Journals

1. Variability of the blazar 4C 38.41 (B3 1633+382) from GHz frequencies to GeV energies
   Raiteri, C. M.; Villata, M.; Smith, P. S., et al.
   A&A, 545, 48, 2012
2. A Study of the Photometric Variability of the Peculiar Magnetic White Dwarf WD 1953011
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   ApJ, 734, 17, 2011
3. Multi-wavelength Observations of the Flaring Gamma-ray Blazar 3C 66A in 2008 October
   Abdo, A. A., Ackermann, M., Ajello, M., et al.
   ApJ, 726, 43, 2011
4. Multiwavelength Observations of 3C 454.3. III. Eighteen Months of Agile Monitoring of the "Crazy Diamond"
   Vercellone, S., D'Ammando, F., Vittorini, V. et al.
   ApJ, 712, 405, 2010
5. Multiwavelength observations of a TeV-Flare from W Comae
   V. A. Acciari, Aliu, E., Aune, T., Beilicke, M., et al.
   ApJ, 707, 612, 2009
6. AGILE detection of a rapid gamma-ray flare from the blazar PKS 1510-089 during the GASP-WEBT monitoring
   D'Ammando, F., Pucella, G., Raiteri, et al.
   A&A, 508, 181, 2009
7. The GASP-WEBT monitoring of 3C 454.3 during the 2008 optical-to-radio and γ-ray outburst
   Villata, M., Raiteri, C. M., Gurwell, et al.
   A&A, 504L, 9, 2009
8. The metallicity of the most distant quasars
   Juarez, Y., Maiolino, R., **Mújica, R.**, Pedani, M., Marinoni, S., Nagao, T., Marconi, A., Oliva, E.
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9. Identification of a complete sample of northern ROSAT All-Sky Survey X-ray sources. VIII. The late-type stellar component
   Zickgraf, F.-J., Krautter, J., Reffert, S., Alcalá, J. M., **Mújica, R.**, Covino, E., Sterzik, M. F.
   A&A, **433**, 151, 2005

10. IRAS F02044+0957: An interacting system
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11. The European Large Area ISO Survey - IX. The 90- μm luminosity function from the Final Analysis sample
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12. Extreme gas properties in the most distant quasars
Maiolino, R., Oliva, E., Ghinassi, F., Pedani, M., Mannucci, F., **Mujica, R.**, Juarez, Y.
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13. The European Large Area ISO Survey (ELAIS): The Final Band-merged Catalogue
M.Rowan-Robinson, C.Lari, I.Perez-Fournon, et al.
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14. Spectral Observations of Subfuors (EXORS).II. V1143 Ori
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15. Optically bright Active Galactic Nuclei in the ROSAT-Faint Source Catalogue
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16. Early Star Formation Traced by the Highest Redshift Quasars
Maiolino R., Juarez Y., **Mujica R.**, Nagar N.M., Oliva E.
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17. Optical and Radio Studies of Radio Sources
Afanasiev, V. L., Dodonov, S. N., Moiseev, A. V., Chavushyan, V.,**Mujica, R.**, Juarez, Y., Gorshkov, A. G., Konnikova, V. K., Mingaliev, M. G.
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18. A Multiwavelength Study of NLS1s Galaxies from the Second Byurakan Survey
Stepanian, J., Benitez, E., Krongold, Y., Cruz-Gonzalez, I., de Diego, J. A., Chavushyan, V., **Mujica, R.**, Dultzin-Hacyan, D., & Verdugo
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19. Around the Clock Observations of the Q0957+561 A,B Gravitationally Lensed Quasar II: Results for the second observing season

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20. Objects from a cross-Identification of the IRAS and low-Frequency Texas Radio Catalogues.
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21. Spectroscopic Observations of Subfuors (Exors). I. V1118 Ori.
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22. Classification of Optical Identifications of Radio Sources from Complete Samples
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30. Identification of a complete sample of northern ROSAT All-Sky Survey X-ray Sources. III.The Catalogue
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34. The extragalactic nature of PP 31.
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35. Photometry of open clusters. III. HR 4684, HD 106103 in Coma Berenices.
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Edition of Books

1. Memorias del XIV Encuentro Regional de Investigación y Enseñanza de la Física
   Editors: **Mujica, R.**, Magallanes, L.
   Electronic Edition 2010: http://www.fcfm.mx/smf
2. Memorias del XIII Encuentro Regional de Investigación y Enseñanza de la Física
   Editors: **Mujica, R.**, Magallanes, L.
   Electronic Edition 2009: http://www.fcfm.mx/smf
3. Multiwavelength AGN Surveys
   Editores: **Mujica, R.** & Maiolino R.
   World Scientific, 2004
4. Galaxy Disks: Kinematics, Dynamics and Perturbations
   Editors: E. Athanassoula, A. Bosma & **Mujica, R.**
   ASP Conf. Proc., Vol. 275, 2002
5. Advanced Lectures on the Starburst-AGN Connection
   Editors: I. Aretxaga, D. Kunth & **Mujica, R.**
   World Scientific, 2001
6. Poster Contributions to the Advanced Lectures on the Starburst-AGN Connection
   Editors: **Mujica, R.**, I. Aretxaga & D. Kunth
   INAOE Electronic Edition 2001: http://www.inaoep.mx/ agn00/posters.html

Conference Proceedings

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   Sorcia, M., Benitez, E., Heidt, J., Hiriart, D., Agudo, I., Cabrera, J. I., Dultzin, D., Gonzalez, M. M., Gonzalez, I., Lopez, J. M., **Mujica, R.**, Nilsson, K., Sacahui, R.
   In: "XIII Reunion Regional Latino-Americana de la UAI"
   RMxAC, 40, 131, 2011. Eds. W. J. Henney & S. Torres-Peimbert
2. MIR and hard X-ray luminosities, silicate features, and SFR in AGN
   Juarez, Y., Maiolino, R., **Mujica, R.**, I. Cruz-Gonzalez
   In: "XIII Reunion Regional Latino-Americana de la UAI"
   RMxAC, 40, 124, 2011. Eds. W. J. Henney & S. Torres-Peimbert
3. Long-Term Optical Photopolarimetric Monitoring of Blazars at San Pedro Martir
   Benitez, E., Heidt, J., Hiriart, D., Agudo, I., Cabrera, J. I., Dultzin, D., Gonzlez, M. M., Lpez, J. M., **Mujica, R.**, Nilsson, K., Sacahui, R., Sorcia, M.
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4. Properties of bars in spiral galaxies from COSMOS
   Hernandez-Lopez, I., Reciilas, E., **Mujica, R.**, Athanassoula, E.
   In: "XIII Reunion Regional Latino-Americana de la UAI"
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5. First Observational Evidences for the Presence of Active, Localized Magnetic Structures in White Dwarfs
   Valyavin, G., Wade, G. A., Bagnulo, S., Antonyuk, K., Plachinda, S., Clark, D. M., Fox Machado, L., Alvarez, M., Lopez, J. M., Hiriart, D., Han, I., Jeon, Y.-B., Zharikov, S. V. Zurita, C., Mujica, R., Shulyak, D., Burlakova, T.
   In: Proceedings of the International Conference on Magnetic Stars. Eds: I. I. Romanyuk and D. O. Kudryavtsev, p. 295-302, 2011

6. The metallicity of the most distant quasars
   Juarez, Y., Maiolino, R., **Mujica, R.**
   In: "A Long Walk Through Astronomy: A Celebration of Luis Carrasco's 60th Birthday"
   RMxAC 37, 163, 2009 Edited by Recillas, Aguilar, Luna

7. M33: The existence of a bar
   Hernandez-Lopez, I., Athanassoula, E., **Mujica, R.**, Bosma, A.
   In: "A Long Walk Through Astronomy: A Celebration of Luis Carrasco's 60th Birthday"
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8. Mass dust evolution in high redshift quasars
   Juarez, Y., Maiolino, R., **Mujica, R.**
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   RMxAC 37, 177, 2009. Edited by Recillas, Aguilar, Luna

9. IR Spectroscopy in high redshift QSOs
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10. IR Spectroscopy in high redshift QSOs
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    In: "The 3rd Mexico-Korea Conference on Astrophysics" RevMexAA (Conference Series), 28, 103, 2007 Edited by Kurtz, Franco, Hong, et al.

11. Zickgraf, F.-J., Krautter, J., Frink, S., Alcalá, J. M., **Mujica, R.**, Covino, E., Sterzik, M. F.
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20. The FIRST-APM QSO survey (FAQS)
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3. Radio-emitting X-ray Sources in a Complete RASS Sample
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4. Identification of a complete sample of northern ROSAT All-Sky Survey X-ray Sources.
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6. A spectroscopic study of subluminous stars in NGC 2264.
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2. Manual de usuario del Espectrógrafo y Cámara para Objectos Débiles (LFOSC) del Proyecto ROSAT.
   L. Corral, **R. Mújica**, O. Yam
   INAOE, Reporte Técnico No. 167, 1992

Popular Astronomy Papers

- Amaneciendo con Venus
  R. Mjica
  Saberes y Ciencias. Suplemento de la Jornada de Oriente. Diciembre 2012
- Diciembre 2012: el mundo no finalizar
  R. Mujica (Traduccin)
  Saberes y Ciencias. Suplemento de la Jornada de Oriente. Diciembre 2012
- El delicado sonido del trueno
  R. Mujica
  Saberes y Ciencias. Suplemento de la Jornada de Oriente. Noviembre 2012
- Tres colores: la Luna
  R. Mujica
  Saberes y Ciencias. Suplemento de la Jornada de Oriente. Octubre 2012
- La Noche de las Estrellas
  R. Mujica y P. Faure
  Saberes y Ciencias. Suplemento de la Jornada de Oriente. Noviembre 2012
- Curiosidades en Marte
  R. Mujica
  Saberes y Ciencias. Suplemento de la Jornada de Oriente. Octubre 2012
- Como una pelotota que alumbra el callejn
  R. Mjica
  Saberes y Ciencias. Suplemento de la Jornada de Oriente. Septiembre 2012
- Y, sin embargo, no fue Galileo
  R. Mujica, Jos Ramon Valdes

Agosto 2012, Saberes y Ciencias suplemento de ciencias de la Jornada de Oriente

- Los astros se han conjugado para hacerte una mala jugada
  R. Mujica
  Julio 2012, Saberes y Ciencias suplemento de ciencias de la Jornada de Oriente
- Un final ignominioso para una idea respetada
  R. Mujica
  Junio 2012, Saberes y Ciencias suplemento de ciencias de la Jornada de Oriente
- El Trailer de la Ciencia de Morelos: conocimiento y diversión al volante.
  R. Mujica
  Abril-Junio 2012, Revista Hypatia
- La conspiración maya
  R. Mujica
  Mayo 2012, Saberes y Ciencias suplemento de ciencias de la Jornada de Oriente
- La teoría del siglo
  R. Mujica
  Abril 2012, Saberes y Ciencias suplemento de ciencias de la Jornada de Oriente
- La leyenda de la torre inclinada
  R. Mujica
  Marzo 2012, Saberes y Ciencias suplemento de ciencias de la Jornada de Oriente
- Trnsito de Venus del 5 de junio del 2012 Jos Ramn Valds y **Ral Mujica**
  Marzo 2012, Saberes y Ciencias suplemento de ciencias de la Jornada de Oriente
- La hora del cielo **R. Mujica**
  El Universal. Abril 2012
- INAOE: la ruta astrofísica de México **R. Mujica**
  La Crónica, 2011
- Astronomía Mexicana:el Gran Telescopio MIlimétrico **R. Mujica**
  Revista Ingenia, 2011
- Estrella fugaz o un meteorito?
  R. Mujica
  La Crónica, 2011
- Ciencia sobre ruedas: el Trailer del la Ciencia
  R. Mujica, et al.
  Revista Saberes compartidos, 2010

- El Gran Telescopio Canarias
  J. Valdes, **R. Mujica**, M. Chavez, E. Bertone
  Revista Saberes compartidos, 2009
- Qué leen los astrónomos
  R. Mujica
  Revista Leer y leer, 2008
- El OANTON: 65 años explorando el Universo
  R. Mujica
  Revista Saberes compartidos, 2007
- El Discreto Encanto de la Ciencia.
  R. Mujica y V. Macias.
  Aleph Zero No. 87. Noviembre 2005
- El Consejo Puebla de Lectura: una Biblioteca en El Alto.
  V. Macias, A. Carrasco y **R. Mujica.**
  Aleph Zero No. 83. Octubre 2005
- Baños de Ciencia en el Consejo Puebla de Lectura A.C.
  R. Mujica y V. Macias.
  Aleph Zero No. 79. Noviembre 18.
- Como acercar a la juventud a la ciencia. Editorial
  R. Mujica
  En: Aleph Zero No. 7. Revista de Educación y Divulgación Científica.
  Suplemento Especial para el Periódico Síntesis
  Viernes 10 de octubre del 2003
- El Taller de Ciencia para Jóvenes
  R. Mújica y O. López-Cruz
  En: Aleph Zero No. 7. Revista de Educación y Divulgación Científica.
  Suplemento Especial para el Periódico Síntesis
  Viernes 10 de octubre del 2003
- Polvo Rojo
  R. Mújica y O. López-Cruz
  En: Aleph Zero No. 3. Revista de Educación y Divulgación Científica.
  Suplemento Especial para el Periódico Síntesis
  Viernes 5 de septiembre del 2003
- El Observatorio Astrofísico Nacional de Tonantzintla: 60 años Explorando el Universo
  R. Mújica
  En: "Arte y Cultura" Suplemento Dominical No. 449. Periódico Síntesis
  12 de mayo del 2002
- Qué nos dejó el cometa Hale-Bopp?
  J.R. Valdés, O. Martínez, **R. Mújica**
  En: Datos Astronómicos para Cuba, p. 80, 1999

- La Vía Láctea
  R. Mújica
  En: "Datos Astronómicos para Cuba", p. 58, 1995
  Editorial Academia

- Los eclipses solares y el efecto Einstein.
  R. Mújica, L. Terranegra
  En el Libro: "Los Eclipses en México", p. 121, 1991
  SEP-CONACyT

- **Student Training**

  Teaching

  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 2012
  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 2011
  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 2010
  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 2009
  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 2008
  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 2007
  - General Astrophysics. Teacher.
    INAOE. August-December 2004
  - Observational Astronomy. Teacher.
    INAOE. January-May 2004
  - General Astrophysics. Teacher.
    UDLA. August-December 2002
  - Stellar Evolution. Teacher.
    INAOE. January-May 2000
  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 1999
  - General Astronomy. Teacher. "Cursos Propedéuticos"
    INAOE. June-August 1997
  - Galactic Astronomy. Teacher assistant
    INAOE. January-May 1997
  - Stellar Atmospheres. Teacher assistant
    INAOE. September-December 1993

Theses

- Izbeth Hernández, Properties os spirals and bars in galaxies, INAOE, PHD, In process
- Joannes Bosco Hernández, High resolution Spectroscopy: Instrumentation and Astronomy Applications, INAOE, PhD. In process.
- Benito Orozco Serna, Desarrollo de una Cámara contadora de fotones basada en EMCCDs y su aplicación en Astronomía, INAOE, PhD. December 2010.
- Yari Juárez, The ISM Properties and Evolution in AGNs, INAOE, PhD. October 2009.
- Joannes Bosco Hernández, Actualización y Caracterización del Ebert-Fastie, INAOE, Master Degree. December 2007.
- Maritza Lara, Análisis de la variabilidad de V29 en M33, BUAP, Physics Degree, June 2005
- Yary Juárez, Metalicidad en QSOs a alto redshift, INAOE, Master Degree, September 2004
- Martha Bello, Variabilidad en Estrellas T Tauri, BUAP, Physics Degree, June 2003
- Ramiro Calleja, Actualización de LFOSC, INAOE, Master Degree, July 2002
- Yary Juárez, Identificación de Fuentes de Rayos X, BUAP, Physics Degree, May 2002

Other

- Giannina Dalle Mese. Escuela de Ciencias de la Tierra. Universidad de Sinaloa. "XIII Verano de la Investigación Científica", 2003
- Maritza Arlene Lara López. Benemérita Universidad Autónoma de Puebla Facultad de Física. "XIII Verano de la Investigación Científica", 2003

- **Conferences and Workshops**

  - Member of the LOC for the conference "A Long Walk Through Astronomy: a celebration of the scientific contributions of Luis Carrasco on his 60th Birthday" that took place in Huatulco, Mexico, October 15 - 17, 2008
  - Member of the LOC for the conference "The Nuclear Region, Host Galaxy and Environment of Active Galaxies: A Symposium to celebrate the 60th birthday of Deborah Dultzin-Hacyan" that took place in Huatulco, Mexico, 18-20 de april, 2007
  - Member of the LOC for the "XXI Congreso Nacional de Astronomíia", that took place in in Tonantzintla, Puebla, México. March 14-16, 2007

- Chair of the LOC for the "International School on Galactic and Cosmological N-Body Simulations", that took place in Tonantzintla, Puebla, México. July 23-August 5, 2006
- Chair of the LOC for the conference "Multiwavelength AGN Surveys", that took place inCozumel, México. December 8-12, 2003
- Organizer of the Guillermo Haro Workshop 2003 on "AGN Surveys", that took place in Tonantzintla, Pue, Mexico, June 23-Julio 11, 2003
- Member of the LOC for the conference *Disks of Galaxies, Kinematics, Dynamics and Perturbations* that took place in Puebla, Mexico. November 5-9, 2001
- Member of the LOC for the conference *Ionized Gaseous Nebulae* that took place in Mexico City. November 21-24, 2000
- Chair of the LOC for the *Advanced Lectures on the Starburst-AGN Connection*, that took place in Tonantzintla, Puebla, Mexico. June 26-30, 2000
- Member of the LOC for the conference *Cosmic Evolution and Galaxy Formation: Structure, Interactions, and Feedback*, that took place in Puebla, Mexico, November 15-19, 1999
- Member of the LOC of the Guillermo Haro Workshop 1999 (part I) on *Large Scale Structure and Clusters of Galaxies*, that took place in Tonantzintla, Pue, Mexico, June 14-July 30, 1999

- **Popular Astronomy Activities**

  - Organizer of the "Taller de Ciencia para Jóvenes 2002-2012", INAOE, http://www.inaoep.mx/∼rmujica/taller.html
  - Organizer of the "Taller de Ciencia para Profes 2006-2012", INAOE, http://www.inaoep.mx/∼rmujica/taller_profes.html
  - Periodic participation on the radio program "Al Aire" http://www.estamosalaire.com
  - Organizer of the INAOE-activities to celebrate the IYA 2009: http://www.inaoep.mx/astronomia2009
  - Organizer of the seminar La Enseñanza y Divulgación de la Ciencia 2009 http://www.inaoep.mx/∼cplorg/filec/seminario/
  - Organizer of the activities in Cd. Serdán to celebrate the LMT Dedication: http://www.inaoep.mx/∼rmujica/gtm.html
  - Organizer of the "Feria Internacional de Lectura (FILEC)" 2007-2012 http://www.consejopuebladelectura.org/filec
  - Organizer of the "Baños de Ciencia: Talleres de Ciencia para Niños", in Puebla, Oaxaca, Tlaxcala and other places. 2005 - 2012 http://www.inaoep.mx/∼rmujica/bdc.html

- Co-Organizer of the activities to celebrate the closing of the "Año Internacional de la Física" December 2005.
- Co-Organizer of the Semana nacional de Ciencia y Tecnología
- Organizer of the 9a. Semana nacional de Ciencia y Tecnología, 2002 http://www.inaoep.mx/∼rmujica/semana/semana.html
- Organizer of the activities at the Museo Nacional de Ferrocarriles, Puebla, to celebrate the 60th anniversary of the Tonantzintla Observatory, including 2 Courses (feb-mar 2002), 4 Talks (apr-may 2002), and 1 Exhibition (mar-may 2002)
- I gave many popular astronomy talks at several institutions (BUAP, UDLA,UPAEP, UIA, Casa de la Ciencia, CECyTs, Colegio Americano, Tecnológicos, Universum, etc.), several levels and different states of the country
- I have been invited to participate in several discussion panels and as a referee in science contests
- A report of the popularization of science activities in the last three years can be downloaded from: $https://dl.dropbox.com/u/44043328/2009-2012_rmujica.doc$
- A list of participations on communication media in the last three years can be downloaded from: $https://dl.dropbox.com/u/44043328/medios_rmujica.pdf$

- **Committees (In Spanish!)**
  - Miembro del Comité Editorial del Suplemento de Ciencias de la Jornada de Oriente, 2011
  - Coordinador de las actividades INAOE del Año Internacional de la Astronomía 2009
  - Miembro del Comité Editorial de la serie "Somos Maestros" de Editorial SM
  - Miembro del Comité Nacional de la Noche de las Estrellas
  - Miembro del Comité Académico de Extensiones de Becas, CONACyT, 2000-2003
  - Asociado al Consejo Puebla de Lectura A.C.,
  - Miembro del Consejo Consultivo del Consejo Puebla de Lectura A.C., desde Diciembre 2003
  - Miembro del Comité Editorial del Suplemento de Divulgación científica Aleph Zero, del Diario "Síntesis" desde Agosto 2003
  - Miembro del Comité de Selección de la Biblioteca de Aula (SEP) 2003-2006 en Puebla
  - Secretario Adjunto del Programa Guillermo Haro 2000-2004

- Representante por parte de Astrofísica al Colegio de Personal Académico Abril 2001-Marzo 2003
- Miembro de la Comisión de Asignación de Tiempo de Telescopio (CATT) de Noviembre 1999 a Marzo 2001 y desde enero 2006 a la fecha
- Representante Docente por parte de Astrofísica, de Marzo 1999 a Marzo 2001